

## Section 5-9: Problem Solving Skills: Circle Graphs

**By the end of this lesson, you should be able to answer:**

- How do you accurately create circle graphs to describe real-world data?

**Where you might see this in the real world:**

- Market research, food service, recreation

Define the following terms:

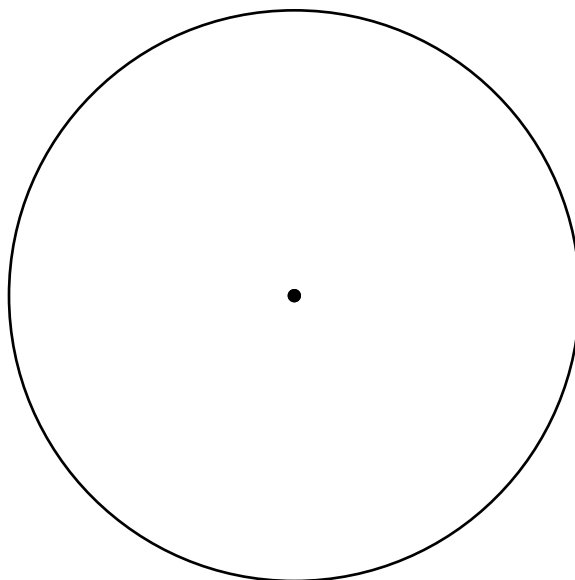
1. Circle Graph

2. Sector

Circle graphs are an easy way to show how much of a something you have, in comparison to the whole amount. We usually see circle graphs with percentages. Today, we will learn how to create a circle graph using a compass and protractor.

Example 1: The following table shows what percentage of people list the following types of music as their favorite. Make a circle graph for the data. Write a title for your graph.

Type of Music	%
Oldies	8
Pop	26
Alternative	14
Rock	20
Hip-Hop	17
Indie/College	9
Jazz	6



a. Find the number of degrees in each central angle.

b. Construct the central angles for each sector. You need to start with a radius that you can put anywhere on the circle. Then measure each angle as you go around until you end up where you began.

Problem Set:

"Practice is a means of inviting the perfection desired." – Martha Graham